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Declass Review by NIMA / DoD

13 June 1963

MEMORANDUM FOR: Chief, Technical Intelligence Division

SUBJECT: Comparator Readout Equipment

PROBLEM:

Replacement or repair of readout equipment to service the various comparators in TAB.

STATEMENT OF FACTS:

1. Telecordex-flexowriter equipment now in use with the [REDACTED] comparators requires replacement or overhaul to maintain reliability of output.

25X1A

2. Additional equipment must be secured to service the new [REDACTED] comparator being purchased.

25X1A

3. Reliability of the [REDACTED] readout equipment for the [REDACTED] and three RIC-1 comparators is undependable and may require replacement with more reliable equipment.

25X1A

4. The [REDACTED] six channel code currently in use should be replaced by the seven channel field data code (a more universal code compatible with the 490 input format) as soon as possible.

DISCUSSION:

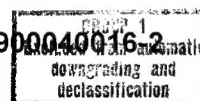
1. Basically, the telecordex is reliable and with proper maintenance and periodic replacement of all tubes it should provide dependable service. A complete set of replacement tubes have been ordered at a cost of around [REDACTED] for three instruments.

2. A new instrument could be purchased to replace the telecordex, such as the solid state version of the telecordex or the pignl. A replacement instrument would cost about [REDACTED]

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3. The chief sources of trouble in the readout cycle is the flexowriter. A separate tape punch and IBM typewriter is a possible alternate for the flexowriter. The purchase of a spare flexowriter or two would

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provide backup in case of a flexowriter break down. The spare could be used while the malfunctioning flexowriter is undergoing repairs. Flexowriters cost approximately [REDACTED]

25X1A

4. As additional comparators are acquired additional readout equipment is needed. There is also the problem of replacing the [REDACTED] readout equipment of the RIC-1s with more reliable instruments. Should these instruments be of a new design or should they be more telecordexes? There is merit in having one common instrument allowing for interchangeability as well as stocking of parts and simplicity of maintenance.

RECOMMENDATIONS:

1. That the current telecordex instruments be retained and a complete set of tubes periodically installed.
2. That an improved readout instrument be selected and purchased as additional equipment is needed.
3. That new tape punch and hard copy printout equipment be purchased to replace the flexowriters. This same equipment also be used with the improved readout instrument selected. This equipment to be designed to produce the seven channel field data code.

[REDACTED]
Deputy Chief
Technical Intelligence Division

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Distribution:

Orig & 1 - Chief, TID
1 - TAB
1 - CB
1 - Chrono

NPIC/TID: [REDACTED] jlh/2955

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NPIC ROUTING SLIP

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FROM:

Chief, P&D.

DATE:

1 July 63

FOR YOUR

TO INITIALS DATE

DIR

DEP/DIR

EXEC/DIR

ASST FOR OPS

ASST FOR ADMIN

ASST FOR P&D

✓ WC ✓

CH/CSD

CH/D

CH/PD

CH/TID

SIO/CIA (PID)

SIO/ARMY

SIO/NAVY

SIO/AF

LO/DIA

LO/NSA

REM

S:

TID is adopting this approach to the problem. Presently, you are still reluctant to this problem also follow this approach. RSP.

(OVER)

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REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPROVAL
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Notes:

- 25X1A
1. XXXXXXXXXX Model TMP-200 Tapemaker Printer with the following:
 - a) Special code - 7 level field data code.
 - b) Pin feed or tractor feed.
 - c) Parity generator.
 2. Optional Equipment:
 - a) 113A Remote constants switches - 4 to be used at operator's station.
 - b) 106A remote Nixie display - 6 digit plus sine for both X and Y axis, includes filter windows.
 3. One set of manuals required.

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DE BY	
HK BY	
APPD BY	
NEXT ASSY	USED ON

SYSTEM BLOCK DIAGRAM
AIR FORCE Hq.

NOTE: PL 215-15
MJO:

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